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### [1. 12.1-FH1: Coating Existing Concrete Barriers to Reduce Rollover Potential](#)

Release Date: 10-07-2011Open Date: 10-11-2011Due Date: 12-12-2011Close Date: 12-12-2011

There are thousands of miles of concrete barrier in place on the highways across the United States and many more miles used as temporary barriers in work zones. There are 5 typical concrete barrier shapes which have been used for years that generally have performed acceptably. The different shapes with their different design characteristics provide some tradeoffs with crash performance ...

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### [2. 12.1-FH2: Fast Real Time Positioning using GNSS](#)

Release Date: 10-07-2011Open Date: 10-11-2011Due Date: 12-12-2011Close Date: 12-12-2011

Many developments in surface transportation are dependent on greater positioning accuracy as well as position integrity for improvements in safety, performance, and efficiency. Examples include: · Construction (grading, paving, infrastructure mapping), · Maintenance (line striping), · &nbs ...

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### [3. 12.1-FM1: Communicating Towed unit \(Trailer\) Vehicle Identification Number\(s\) \(VIN\) to the Powered unit.](#)

Release Date: 10-07-2011Open Date: 10-11-2011Due Date: 12-12-2011Close Date: 12-12-2011

The primary mission of Federal Motor Carrier Safety Administration (FMCSA) is to reduce crashes, injuries and fatalities involving large truck and buses. One of the strategies employed to accomplish this goal is to foster innovative research in new or augmenting safety enhancing technologies and to facilitate faster deployment of proven systems. In collaboration with our industry partners an ...

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### [4. 12.1-FM2: Innovative Solutions to Effectively Enforce Anti-texting Rules on Commercial Motor Vehicle \(CMV\) Drivers](#)

Release Date: 10-07-2011Open Date: 10-11-2011Due Date: 12-12-2011Close Date: 12-12-2011

The primary mission of Federal Motor Carrier Safety Administration (FMCSA) is to reduce crashes, injuries and fatalities involving large truck and buses. One of the strategies employed to accomplish this goal is to foster innovative research in new or augmenting safety enhancing technologies, novel safety enforcement techniques and aides, as well as to facilitate faster deployment of proven ...

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**5. [12.1-FR1: Locomotive Engine Exhaust Emissions Reduction Technology](#)**

Release Date: 10-07-2011Open Date: 10-11-2011Due Date: 12-12-2011Close Date: 12-12-2011

Rail transportation is one of the most environmentally friendly and energy efficient means of transportation for both passengers and freight. However, there are opportunities to improve upon these benefits and to extend their impact by further improving the efficiency and reducing the emissions associated with rail transportation and by increasing the proportion of our freight and passenger ...

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**6. [12.1-FR2: Electronically Controlled Pneumatic Brake System Adaptor Development](#)**

Release Date: 10-07-2011Open Date: 10-11-2011Due Date: 12-12-2011Close Date: 12-12-2011

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**7. [12.1-FR3: Advanced Locomotive Energy Storage System](#)**

Release Date: 10-07-2011Open Date: 10-11-2011Due Date: 12-12-2011Close Date: 12-12-2011

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**8. [12.1-FT1: Improved Transit Rider Experience](#)**

Release Date: 10-07-2011Open Date: 10-11-2011Due Date: 12-12-2011Close Date: 12-12-2011

Innovative, economical and durable technologies and devices or solutions that will improve and revolutionize the transit experience for the riding public. The innovations must be adaptable to existing bus and rail transit vehicles and systems. Project proposals must include a methodology on how it will use data to quantitatively demonstrate that their recommended technology innovations can t ...

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**9. [12.1-PH: Pipeline and Hazardous Materials Safety Administration \(PHMSA\)](#)**

Release Date: 10-07-2011Open Date: 10-11-2011Due Date: 12-12-2011Close Date: 12-12-2011

· Note: Small Business Concerns may submit a proposal for all three focus areas. Proposals addressing multiple focus areas for this topic must be submitted separately. The biggest source of energy in the United States of America is petroleum, including oil and natural gas. Together, they supply 65 percent of the energy we use. According to the U.S. Energy Inf ...

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**10. [12.1-PH1: Seal Sensor Network for Point-of-Source Leak Detection](#)**

Release Date: 10-07-2011Open Date: 10-11-2011Due Date: 12-12-2011Close Date: 12-12-2011

'Advanced seals', 'gaskets', and 'repair patches' having integrated leak detection sensors are desired to provide capability for point-of-source leak detection across sealed fastened fittings having seals and gaskets, as well as across composite repair patches. Example uses of advanced seals and gaskets include flanged fittings sealed having o-ring s ...

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